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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/766,409	01/27/2004	Maarten Hoeben	050337-1180 (05CXT0057WL)	4160	
24504	7590 09/07/2006		EXAMINER		
THOMAS, K	LAYDEN, HORSTEMEY	SHEDRICK, CHARLES TERRELL			
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STE 1750	ŕ		ART UNIT	PAPER NUMBER	
ATLANTA, GA 30339-5948			2617		_

DATE MAILED: 09/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	-	Appli	cation No.	Applicant(s)				
Office Action Summary		10/76	66,409	HOEBEN, MAAR	TEN			
		Exam	iner	Art Unit				
		Charle	es Shedrick	2617				
Period fo	The MAILING DATE of this communion Reply	cation appears or	n the cover sheet	with the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed	d on						
,—	•	b) This action	is non-final.					
3)	Since this application is in condition f	for allowance exc	cept for formal m	atters, prosecution as to th	e merits is			
	closed in accordance with the practic	e under <i>Ex parte</i>	e Quayle, 1935 C	D.D. 11, 453 O.G. 213.				
Disposit	ion of Claims							
4)⊠	Claim(s) 1-20 is/are pending in the a	pplication.						
	4a) Of the above claim(s) is/ar	e withdrawn fron	n consideration.					
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-20</u> is/are rejected.							
•	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restrict	tion and/or electi	on requirement.					
Applicat	ion Papers							
9)[The specification is objected to by the	e Examiner.						
10)⊠	The drawing(s) filed on 1/27/04 is/are							
	Applicant may not request that any object							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority							
2. Certified copies of the priority documents have been received in Application No.								
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
* (application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
`	see the attached detailed Office action	ir ioi a list of the	certified copies i	iot received.				
•	w.>							
Attachmer	nt(s) ce of References Cited (PTO-892)		4) Intervie	ew Summary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (P	TO-948)	Paper I	No(s)/Mail Date				
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		5) Notice 6) Other:	of Informal Patent Application				
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/30/06 has been entered.

Response to Arguments

Applicant's arguments filed 6/30/06 have been fully considered but they are not persuasive.

Regarding claim 1 and with respect to dependent claims, Applicant argues Giles, Katinakis, and

Li does not disclose teach or suggest at least one or more values that define a first reservation

offset time interval upon which the conclusion of which a transmission of a first signal is

communication.

However, the Examiner respectfully disagree.

According to the Applicant's specification the reservation message 502 comprises a reservation offset 521 and the reservation duration (paragraph 0055) and based on the duration field of message 601, which equals the sum of reservation offset 611 and reservation duration 612, refrain from transmitting over channel 203-1 until after the completion of reservation duration 612, in accordance with the legacy medium access control. Enhanced stations 202 other than 202-i (including station 202-j) and access point 201 also receive message 601 over channel 203-1, and, as a result, refrain from transmitting over channel 203-1 during reservation duration 612.

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Giles teaches in at least col. 6 lines 37-53 that when an agent sends a request-to-send RTS message, it embeds in the message, in the data field thereof, the duration of the reservation measured from the end of the request-to-send RTS message as illustrated in FIG. 4a. The duration of the reservation will include an initial key-up period required by the requesting agent to prepare to receive a clear-to-send CTS message from the intended recipient, a period during which the clear-to-send CTS message is received, another key-up period during which the requesting agent prepares to send a data packet, and a period during which the data packet is sent. When an agent sends a clear-to-send CTS message, it embeds in the message the time remaining in the RTS reservation. The CTS reservation will therefore include the time during which the data packet is sent and the preceding key-up period – this is equivalent to a reservation offset time (key up period) upon the conclusion of which a first signal (i.e., data packet is sent) and second time period (period of reservation for the actual data to be transmitted) upon the conclusion of which the first signal (i.e., a data packet) is ended.

Giles does not specifically teach reserving and transmitting over multiple channels.

However, Katinakis et al. teach in col. 3 lines 44-57 that for higher data rates the MS may select and reserve multiple time slots in each channel. The MS transmits the packets to multiple base stations over multiple channels.

Therefore, it is respectfully noted that at this time the amended claims do not overcome the prior art disclosed with respect to the following rejection.

Regarding claim 11, Applicant is reminded that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in Application/Control Number: 10/766,409 Page 4

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order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1-3,5,6,8-14, and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giles et al. (U.S. Patent # 5,231,634) in view of Katinakis et al. (U.S. Patent # 6,389,039 B1).

Consider claims 1 and 13, Giles et al. teach a method and apparatus comprising: a receiver for receiving a first message over a first shared-communications channel (i.e., receiving from first, second or third agent) (abstract, col. 2 line 65- col. 4 line 21), wherein said first message comprises: (i) a notification that said first shared-communications channel has been reserved (i.e., a RTS or CTS message) (abstract, col. 3 lines 3-22 and lines 40- line 58, col. 5 line 62 - col. 6 line 10, col. 9 lines 40-67) (ii) one or more values that define (a) a first reservation offset time interval (i.e., key up time) upon the conclusion of which a first signal is transmitted (i.e., first signal is transmitted following the key up time)(abstract, col. 3 lines 3-22, col. 3 lines 40-42, col. 5 lines 49-55, col. 6 lines 37-67, and col. 9 lines 40-67) and (b) a second reservation duration time interval (i.e., reservation duration for at least the data portion or the equivalent type of signal)during which a first shared communication channel are reserved and upon the conclusion of which the transmission of the first signal over the first shared channel is ended (i.e., at least col. 6 lines 37-67), wherein said second time interval is after said first time interval reserved (i.e., second duration is after first duration/ key-up period) (abstract, col. 3 lines 3-22, col. 3 lines 40-42, col. 5 lines 49-55, col. 6 lines 37-67, and col. 9 lines 40-67); and a transmitter for transmitting, within said first time interval, a second signal over said first sharedcommunications channel (i.e., transceiver is capable of transmitting during, before, or after, the reserved duration) (col. 3 lines 3-22, lines 54-58).

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However, Giles et al. does not clearly disclose a second shared-communications channel or transmitting over the combination of said first shared-communications channel and said second shared-communications channel.

In the same field of endeavor, Katinakis et al. clearly show and disclose reserving a second shared-communications channel and transmitting over the combination of said first shared-communications channel and said second shared-communications channel (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. to include transmitting over the combination of said first shared-communications channel and said second shared-communications channel as taught by Katinakis et al. for the purpose of attaining higher bandwidth transmissions.

Consider claims 2 and 14 as applied to the apparatus and method of claims 1 and 13 respectively, Giles et al. as modified by Katinakis et al. clearly disclose wherein said first message is also received by a station that always transmits via one shared-communications channel at a time (i.e., stations contend for channel access)(col. 3 lines 50-57), and wherein said notification causes said station to refrain from transmitting until after said second time interval (col. 3 lines 50-57).

Consider claim 3 and as applied to the apparatus of claim 1, Giles et al. clearly disclose wherein said transmitter is also for transmitting (see col. 3 lines 3-22 and lines 33-35), after said second time interval, a third signal (i.e., data, cts, rts, ack) (col. 5 line 62 col. 6 line 10. col. 7 line 52-col.8 lines 20).

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However, Giles et al. does not clearly disclose transmitting over the combination of a plurality of shared-communications channels.

In the same field of endeavor, Katinakis et al. clearly show and disclose transmitting over the combination of said first shared-communications channel and said second shared-communications channel (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. to include transmitting over the combination of a plurality of shared-communications channels as taught by Katinakis et al. for the purpose of attaining higher bandwidth transmissions.

Consider claim 5 and as applied to the apparatus of claim 1, Giles clearly show and disclose the claimed invention except wherein said transmitter is also for, prior to receiving said first message: transmitting over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel; and transmitting a third signal over the combination of said plurality of shared-communications channels.

In the same field of endeavor, Katinakis et al. clearly show and disclose wherein said transmitter is also for, prior to receiving said first message (col. 4 lines 7-25): transmitting over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b); and transmitting a third signal over the combination of said plurality of shared-communications channels (i.e. data, voice, channeling frames, etc.) (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

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Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. to include prior to receiving said first message: transmitting over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel; and transmitting a third signal over the combination of said plurality of shared-communications channels as taught by Katinakis et al. for the purpose of reserving multiple channels for a higher bandwidth allocation.

Consider claim 6 and as applied to the apparatus of claim 1, Giles et al. clearly show and disclose wherein said receiver is also for receiving, during said first time interval, a second message (abstract, col. 3 lines 3-22 and lines 40- line 58, col. 5 line 62- col. 6 line 10, col. 9 lines 40-67).

However, Giles et al does not specifically disclose a second shared-communications channel associated with reserving said second shared-communications channel.

In the same field of endeavor Katinakis et al. clearly show and disclose a second shared-communications channel associated with reserving said second shared-communications channel (i.e., a plurality of channels interactively communicating) (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Giles et al. to include a second shared-communications channel (i.e., of a plurality of channels) associated with reserving said second shared-communications channel as taught by Katinakis et al. for the purpose of reserving multiple channels for a higher bandwidth allocation.

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Consider claim 8 and as applied to the apparatus of claim 1, Giles et al as modified by Kitinakis et al. clearly disclose wherein said second signal comprises a data message (col. 4 lines 45-64, col. 6 lines 37-52).

Consider claims 9 and 19 and as applied to the apparatus of claim 1 and method of claim 13, Giles et al. clearly disclose wherein said second signal comprises a reservation message for reserving said first shared-communications channel during a third time interval (i.e., receiving a reservation message during reserved state) (col. 7 lines 65-col. 8 line 20); and wherein said third time interval is after said second time interval (i.e., the reservation request is for channel allocation and the channel is allocated based on availability which would mean after the second time interval which has already been reserved in some cases)(col. 7 lines 65-col. 8 line 20); and wherein said transmitter is also for: transmitting, within said first time interval (i.e., see exceptions according to the state diagram) (col. 3 lines 54-57 and also col. 7 lines 65-col. 8 line 20); a third signal for reserving said shared-communications channel during said third time interval(col. 3 lines 3-22, col. 3 lines 40-55, col. 5 lines 49-55, col. 6 lines 37-67, and col. 9 lines 40-67), and transmitting, within said third time interval a fourth signal (i.e. a RTS,CTS, or ACK or data) (i.e., see exceptions according to the state diagram) (col. 3 lines 54-57 and also col. 7 lines 65-col. 8 line 20).

However, Giles does not disclose a signal over a second shared-communications channel and the transmitting over the combination of said first shared-communications channel and said second shared-communications channel.

In the same field of endeavor, Katinakis et al. clearly show and disclose transmitting over a signal over a second shared-communications channel (see abstract, col.3 line 18-57, col. 5

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lines 30-42, col. 6 lines 50-58, see also figures 2-3b) and the combination of said first shared-communications channel and said second shared-communications channel (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. to include transmitting over the combination of a plurality of shared-communications channels as taught by Katinakis et al. for the purpose of attaining higher bandwidth transmissions.

Consider claim 10 and as applied to the apparatus of claim 9, Giles et al. as modified by Katinakis et al. clearly disclose wherein said reservation message is also received by a station that always transmits via one shared-communications channel at a time (i.e., stations contend for single channel access)(col. 3 lines 50-57), and wherein said reservation message causes said station to refrain from transmitting until after said third time interval (col. 3 lines 50-57)

Consider claims 11 and 20 and as applied to the apparatus of claim 1 and method of claim 13, Giles et al. clearly disclose wherein said second signal comprises a reservation message comprising one or more values defining a third time interval (i.e., see figure 4a) (col. 7 lines 65-col. 8 line 20); and wherein said third time interval is after said second time interval (i.e., the reservation request is for channel allocation and the channel is allocated based on availability which would mean after the second time interval which has already been reserved in some cases)(col. 7 lines 65-col. 8 line 20); and wherein said transmitter is also for: transmitting, within said second time interval and after said first signal is transmitted (i.e., see exceptions according to the state diagram) (col. 3 lines 54-57 and also col. 7 lines 65-col. 8 line 20) and transmitting, within said third time interval, a fourth signal (i.e. a RTS,CTS, or ACK or data)

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(i.e., see exceptions according to the state diagram) (col. 3 lines 54-57 and also col. 7 lines 65-col. 8 line 20)

However, Giles et al. does not disclose a third signal over a second sharedcommunications channel.

In the same field of endeavor, Katinakis et al. clearly show and disclose transmitting over a signal over a second shared-communications channel for reserving said second shared-communications channel during said third time interval (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. to include transmitting over a signal over a second shared-communications channel for reserving said second shared-communications channel during said third time interval as taught by Katinakis et al. for the purpose of attaining higher bandwidth transmissions.

Consider claim 12 and as applied to the apparatus of claim 11, Giles et al. as modified by Katinakis et al. clearly disclose wherein said reservation message is also received by a station that always transmits via one shared-communications channel at a time (i.e., stations contend for single channel access)(col. 3 lines 50-57), and wherein said reservation message causes said station to refrain from transmitting until after said third time interval (col. 3 lines 50-57)

Consider claim 18 and as applied to the method of claim 13, Giles et al. as modified by Katinakis et al. clearly show and disclose the claimed invention further comprising: (c) executing, after (a) and prior to (b), a contention-based protocol to gain access to said first shared-communications channel (i.e., CSMA) (col. 4 lines 5-20 and col. 6 lines 60-66).

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Consider claim 17 and as applied to the method of claim 13 Giles et al. clearly show and disclose the claimed invention further comprising: (c) receiving, during said first time interval, a second message over said second shared-communications channel associated with reserving said second shared-communications channel.

In the same field of endeavor, Katinakis et al. clearly show and further comprising: (c) receiving, during said first time interval, a second message over said second shared-communications channel associated with reserving said second shared-communications channel (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. to include further comprising: (c) receiving, during said first time interval, a second message over said second shared-communications channel associated with reserving said second shared-communications channel taught by Katinakis et al. for the purpose of attaining higher bandwidth transmissions.

Claims 4,7,15, and 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Giles et al. (U.S. Patent # 5,231,634) in view of Katinakis et al. (U.S. Patent # 6,389,039 B1) and further in view of Li (U.S. Patent # 6,349,210 B1).

Consider claim 4 and as applied to the apparatus of claim 3, Giles et al. as modified by Katinakis et al. clearly disclose the claim invention except wherein said transmitter is also for, prior to transmitting said third signal, transmitting sequentially over each of said plurality of shared-communications channels a respective message for reserving that shared-communications channel.

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However, in the same field of endeavor, Li clearly show and disclose wherein said transmitter 12 (see Li figure 1) is also for, prior to transmitting said third signal, transmitting sequentially over each of said plurality of shared-communications channels a respective message for reserving that shared-communications channel (see also Li figure 1, abstract, col. 3 lines 20-35).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. as further modified by Katinakis et al. to include transmitting sequentially over each of said plurality of shared-communications channels a respective message for reserving that shared-communications channel for the purpose of simplifying the reception and reassembly of information.

Consider claim 7 and as applied to the apparatus of claim 1, Giles et al. as modified by Katinakis et al. clearly show and disclose the claimed invention including executing a contention-based protocol prior to said transmitter transmitting said second signal over said first shared-communications channel (i.e., CSMA/CD) (col. 4 lines 5-20 and col. 6 lines 60-66).

However, Giles et al. as modified by Katinakis et al. does not specifically show and disclose prior to said transmitter transmitting said second signal over said first shared-communications channel except for further comprising a processor for: sending signals to said transmitter, receiving signals from said receiver.

In the same field of endeavor, Li clearly show and disclose a processor 16 and 26 (see Li figure 1) for: sending signals to said transmitter 12 and 22 (see Li figure 1), receiving signals from said receiver 14 and 24 (see Li figure 1)(see also Li col. 4 lines 25-52 and col. 16 lines 8-35).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. as further modified by Katinakis et al. to include a processor for: sending signals to said transmitter receiving signals from said receiver as taught by Li for the purpose of communicating.

Consider claim 15 and as applied to the method of claim 13, Giles et al. clearly show and disclose further comprising: (c) transmitting, after said second time interval (i.e., transceiver is capable of transmitting during, before, or after, the reserved duration) (col. 3 lines 3-22, lines 54-58).

However, Giles et al. does not show transmitting, after said second time interval sequentially over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel; and (d) transmitting a third signal over the combination of said plurality of shared-communications channels.

In the same filed of endeavor, Katinakis et al. clearly show and disclose transmitting, after said second time interval over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b); and (d) transmitting a third signal over the combination of said plurality of shared-communications channels (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time invention was made to modify Giles et al. to include transmitting, after said second time interval over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel; and (d) transmitting a third signal over the combination of

said plurality of shared-communications channels as taught by Katinakis et al. for the purpose of allocation higher bandwidth channels.

However, Giles et al. as modified by Katinakis does not disclose transmitting, after said second time interval sequentially.

In the same field of endeavor, Li clearly show and disclose transmitting, after said second time interval sequentially (see also Li figure 1, abstract, col. 3 lines 20-35).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. as further modified by Katinakis et al. to include transmitting sequentially over each of said plurality of shared-communications channels a respective message for reserving that shared-communications channel for the purpose of simplifying the reception and reassembly of information

Consider claim 16 and as applied to the method of claim 13, Giles et al clearly show and disclose further comprising: (c) transmitting, prior to receiving said first message (i.e., transceiver is capable of transmitting during, before, or after, the reserved duration) (col. 3 lines 3-22, lines 54-58).

However, Giles et al. does not show transmitting, after said second time interval sequentially over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel; and (d) transmitting a third signal over the combination of said plurality of shared-communications channels.

In the same filed of endeavor, Katinakis et al. clearly show and disclose transmitting, after said second time interval over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel (see abstract, col.3 line

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18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b); and (d) transmitting a third signal over the combination of said plurality of shared-communications channels (see abstract, col.3 line 18-57, col. 5 lines 30-42, col. 6 lines 50-58, see also figures 2-3b).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time invention was made to modify Giles et al. to include transmitting, after said second time interval over each of a plurality of shared-communications channels a respective message for reserving that shared-communications channel; and (d) transmitting a third signal over the combination of said plurality of shared-communications channels as taught by Katinakis et al. for the purpose of allocation higher bandwidth channels.

However, Giles et al. as modified by Katinakis does not disclose transmitting, after said second time interval sequentially.

In the same field of endeavor, Li clearly show and disclose transmitting, after said second time interval sequentially (see also Li figure 1, abstract, col. 3 lines 20-35).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Giles et al. as further modified by Katinakis et al. to include transmitting sequentially over each of said plurality of shared-communications channels a respective message for reserving that shared-communications channel for the purpose of simplifying the reception and reassembly of information.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Shedrick whose telephone number is (571)-272-8621. The examiner can normally be reached on Monday thru Friday 8:00AM-4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kincaid Lester can be reached on (571)-272-7922. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Charles Shedrick AU 2617 September 5, 2006

> LESTER G. KINCAID SUPERVISORY PRIMARY EXAMINER